

IN THE SPECIFICATION

On page 1, please amend paragraph 0002 as follows:

[0002] Digital household appliance including devices like digital TVs, digital refrigerators, digital audios, digital set-top boxes or the like, have been developed as digital technologies associated with household appliance evolve. The digital devices which are capable of providing intelligent control show much stronger functions than those of the conventional household appliance, which enable the life of the public to be convenient and colorful. For example, digital TVs may provide a picture having a higher resolution and a function of video-on-demand. With developments of wireless networks and information technologies, various devices of household ~~appliancee~~ appliances, each of which works independently, can no longer satisfy the people's requirements. It is desirable to form a digital household network so as to enable various devices to communicate with each other. For example, video and/or picture file stored in a computer may be displayed on a ~~computer~~ digital TV, an audio file stored in the computer may be played by a digital Audio, and a remote control may be realized via an internet.

On page 2, please amend paragraph 0005 as follows:

[0005] The above object is achieved by providing a wireless control system for digital household appliance including at least one device, comprising: a remote controller for wirelessly transmitting control commands, the remote controller being able to operate at least two wireless communication modes; a receiver ~~or a household device~~ for receiving [[or]] and executing the control commands transmitted by the remote controller, and wherein the remote controller selects one wireless communication mode from the at least two wireless

communication modes according to the control commands to wirelessly communicate with said device or said receiver.

On page 2, please amend paragraph 0006 as follows:

[0006] The remote controller may comprise a power unit; a input unit; a radio unit for providing at least two wireless communication modes; and a control unit for selecting one of the at least two wireless communication modes, wherein the control unit selects one wireless communication mode from the at least two wireless communication modes according to control commands selected inputted by a user and transmits the control commands to the devices so as to control operations of the devices.

On page 4, please amend paragraph 0019 as follows:

[0019] Referring to Fig. 2, the remote controller 10 comprises a control unit 106, a radio unit 104, an interface unit 102, an input unit 108, a display unit 112, memory unit 110 and a power unit 114, wherein all of the radio unit 104, the interface unit 102, the input unit 108, the display unit 112, the memory unit 110 and the power unit 114 are connected to the control unit 106, respectively. The radio unit 104 includes a low power dissipation radio unit 116 and a high speed transmission unit [[1168]] 118.

On page 4, please amend paragraph 0022 as follows:

[0022] The interface unit 102 provides an interface for connecting an external memory, a PC and other host device. The interface may be one of interfaces like CF, SM, MMC, SD, MS, MD, X-D, and PCMCIA. The interface may further include USB, IEEE1394, serial ATA, IDE/SCSI, HiperLAN, Bluetooth, IrDA, HomeRF, IEEE802.11x, IEEE802.11a, IEEE802.11, IEEE802.11d, IEEE802.11.g, IEEE802.15, IEEE802.16, IEEE802.3, RS232, RS485, USB-

OTG, UWB, POI and URAT, but also include one or more of GSM, GPRS, CDMA, 2.5G, 3G interfaces and parallel interfaces. Via the interface unit 102, the remote controller 10 is able to read data stored in an external memory device or to download data from a PC and other host device, and store the obtained data into the memory unit 110.

On page 5, please amend paragraph 0028 as follows:

[0028] The main control unit 1061 controls the interface unit 102 and carries out exchange of data, commands, addresses, status information among the buffer unit 1062, the EEPROM 1065 and the interface control unit 1063. The main control unit [[106]] 1061 includes programming codes to be run, the operating system of the remote controller 10, and a control information database of the digital household appliance like PCs, digital TVs, digital Audios, etc. The programming codes are extensible according to the actual requirements so as to introduce new functions into the system. The software of the remote controller could be upgraded by means of e.g. obtaining upgraded software from an external device via the interface unit 102.

On page 8, please amend paragraph 0042 as follows:

[0042] Referring to Fig. 8, which is a schematic diagram for showing the configuration of a wireless local network in an Infrastructure mode. In this case, the remote controller 10 operates as an access point (AP), and devices of the network such as PCs, digital TVs, digital Audios, etc. operate as work stations. The remote controller 10 and these devices constitute a digital household network with a star-shaped topology, as shown in Fig. [[6]] 8.

On page(s) 8 and 9, please amend paragraph 0043 as follows:

[0043] In the Infrastructure mode, PCs, digital TVs, digital Audios, etc. cannot communicate with each other directly. Instead, communication signals among devices are relayed by the AP, i.e. the remote controller. The remote controller 10 manages the communications among various devices of the network. To this end, a MAC frame should comprise a source address, a destination address and an access point address. The access point address is the MAC address of the remote controller 10. A bridge connection table is established in the remote controller 10. When a device (source station) in the network intends to communicate with another one (destination station), a data frame is firstly transmitted to the remote controller 10. The remote controller 10 receives the data frame from the source station, retrieves the MAC address of the destination station from the data frame, and transmits the retrieved MAC address by conducting a search in the bridge connection table to the destination station.

On page 10, please amend paragraph 0051 as follows:

[0051] If the radio unit is actuated If the high speed transmission unit 118 and the high speed transmission unit 218 are actuated, the process goes to step 706. At step 706, the remote controller 10 actuates the high speed transmission unit 118, and transmits an actuation command to the receiver 20 by means of the low power dissipation radio unit 116 to actuate the high speed transmission unit 218.

On page 13, please amend paragraph 0074 as follows:

[0074] The remote controller 10 and the receiver 20 carry out above processes to control all the functions of the digital household appliance in the digital household network. For example, the remote controller 10 controls digital TVs to switch channels, adjust volume

and so on, the remote controller 10 provides a data resource for the digital household appliance so that picture or text filed stored in the user memory unit 110 may be showed on digital TVs, or data from a PC may be stored into the memory unit 110 or [[a]] an external memory device connected to the interface unit 102.

On page 13, please amend paragraph 0076 as follows:

[0076] The following illustration relates to such a process that the remote controller 10 reads the data which are stored in [[a]] an external memory device connected to the interface unit 102, and stores the read data into the memory unit 110.

On page(s) 15 and 16, please amend paragraph 0085 as follows:

[0085] The user utilizes the input terminal device of the remote controller 10 to select an icon for a PC on the user interface of the operating system. The user interface then displays all icons for documents which are read from the PC. After the user utilizes the input terminal device to select a document icon (that is used to select and store corresponding document into the memory unit 110) to select commands for obtaining the corresponding document from the PC and storing the corresponding document into the memory unit 110 or the memory device connected to the interface unit 102, the operating system actuates the high speed transmission unit 118 of the remote controller 10, and then transmits an actuation command to control the receiver [[10]] 20 via the low power dissipation radio unit 116 so that the high speed transmission unit 218 is actuated. The operating system of the remote controller 10 then accesses the device controlling information database to obtain corresponding control code information. The control code information is processed by the control unit 106, and then transmitted to the radio unit 104 which in turn packets the control code information into data frames. The data frames are then transmitted to the radio unit 204 of the receiver 20 of the

PC via a physical interface layer. The radio unit 204 un-packets the received data frames, and transmits payloads derived from the dipacketed data frames to the control unit 202 of the receiver 20 to make further use. The controlling information contained in the payloads is obtained and processed by the control unit 202 so that the data of the selected document is processed and transmitted to the high speed transmission unit 218 which in turn packets the data into data frames for transmission. The high speed transmission unit 118 of the remote controller 10 receives and un-packets the data frames to transmit payloads contained therein to the [[main]] control unit 106 to make further process so that the [[main]] control unit 106 stores the document into the memory unit 110 or the memory device connected to the interface unit 102.